

DISCOVER

Homogeneous Assays for Tyrosine Kinase and Tyrosine Phosphatase Activity using β -Galactosidase Enzyme Fragment Complementation

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Abstract

Protein tyrosine kinases and phosphatases control cell growth and differentiation. The discovery of these enzymes has led to the development of new drugs for cancer and other diseases. The discovery of these enzymes has led to the development of new drugs for cancer and other diseases. The discovery of these enzymes has led to the development of new drugs for cancer and other diseases.

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Introduction

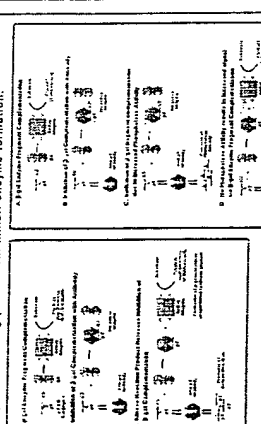
Tyrosine kinase (TK) plays a critical role in cellular signal transduction pathways involved in the regulation of many biological processes. The discovery of these enzymes has led to the development of new drugs for cancer and other diseases.

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- > Homogeneous
- > Simple assay
- > Simple, biological read
- > Microtiter (96/384/1536 formats)
- > Luminescence or Fluorescence (readout)
- > Early substrate

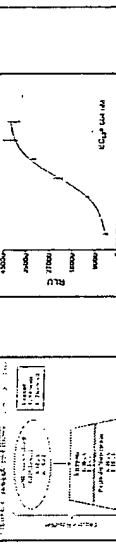
Enzyme Fragment Complementation (EFC) Assay

Enzyme Fragment Complementation Technology (EFC) is based on the ability of two complementary fragments of an enzyme to recombine and form an active enzyme. The discovery of these enzymes has led to the development of new drugs for cancer and other diseases.

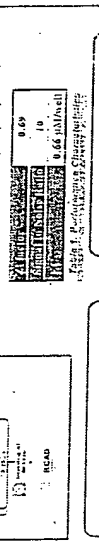


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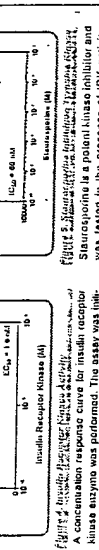
HiHunter™ EFC in a 384-well format



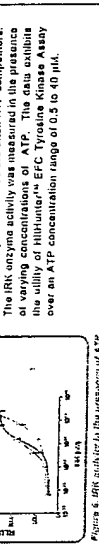
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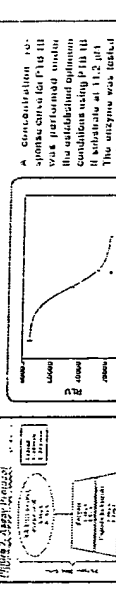
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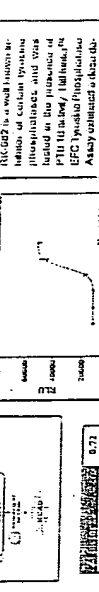
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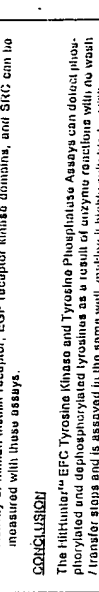
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Summary and Conclusion

The HiHunter™ EFC assays for Tyrosine Kinase and Tyrosine Phosphatase have been demonstrated to be highly sensitive and specific. The assay is suitable for high throughput screening and is easy to perform. The discovery of these enzymes has led to the development of new drugs for cancer and other diseases.

- > HiHunter™ EFC assays for Tyrosine Kinase and Tyrosine Phosphatase have been demonstrated to be highly sensitive and specific.
- > Assay performance is excellent with Z' factor of 0.5-0.7 and CVs of 5-10%.
- > Activity of human Insulin Receptor, EGF receptor kinase domain, and SHC can be measured with these assays.